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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 3 OCT 23 The Derwent World Patents Index suite of databases on STN  
has been enhanced and reloaded  
NEWS 4 OCT 30 CHEMLIST enhanced with new search and display field  
NEWS 5 NOV 03 JAPIO enhanced with IPC 8 features and functionality  
NEWS 6 NOV 10 CA/CAPLUS F-Term thesaurus enhanced  
NEWS 7 NOV 10 STN Express with Discover! free maintenance release Version  
8.01c now available  
NEWS 8 NOV 20 CA/CAPLUS to MARPAT accession number crossover limit increased  
to 50,000  
NEWS 9 DEC 01 CAS REGISTRY updated with new ambiguity codes  
NEWS 10 DEC 11 CAS REGISTRY chemical nomenclature enhanced  
NEWS 11 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated  
NEWS 12 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and  
functionality  
NEWS 13 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced  
with preparation role  
NEWS 14 DEC 18 CA/CAPLUS patent kind codes updated  
NEWS 15 DEC 18 MARPAT to CA/CAPLUS accession number crossover limit increased  
to 50,000  
NEWS 16 DEC 18 MEDLINE updated in preparation for 2007 reload  
NEWS 17 DEC 27 CA/CAPLUS enhanced with more pre-1907 records  
NEWS 18 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals  
NEWS 19 JAN 16 CA/CAPLUS Company Name Thesaurus enhanced and reloaded  
NEWS 20 JAN 16 IPC version 2007.01 thesaurus available on STN  
NEWS 21 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data  
NEWS 22 JAN 22 CA/CAPLUS updated with revised CAS roles  
NEWS 23 JAN 22 CA/CAPLUS enhanced with patent applications from India  
NEWS 24 JAN 29 PHAR reloaded with new search and display fields  
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in  
multiple databases  
NEWS 26 FEB 13 CASREACT coverage to be extended  
NEWS 27 Feb 15 PATDPASPC enhanced with Drug Approval numbers  
NEWS 28 Feb 15 RUSSIAPAT enhanced with pre-1994 records  
NEWS 29 Feb 23 KOREAPAT enhanced with IPC 8 features and functionality  
NEWS 30 Feb 26 MEDLINE reloaded with enhancements  
NEWS 31 Feb 26 EMBASE enhanced with Clinical Trial Number field  
NEWS 32 Feb 26 TOXCENTER enhanced with reloaded MEDLINE  
NEWS 33 Feb 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements  
NEWS 34 Feb 26 CAS Registry Number crossover limit increased from 10,000  
to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

NEWS IPC8        For general information regarding STN implementation of IPC 8  
NEWS X25        X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:40:23 ON 13 MAR 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:40:34 ON 13 MAR 2007

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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

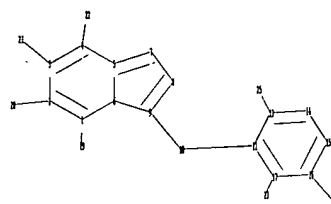
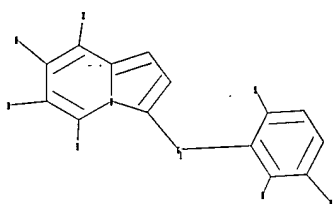
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10509919.str



```

chain nodes :
10 19 20 21 22 23 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 11 13 14 15 16 17
chain bonds :
1-19 2-20 3-21 4-22 9-10 10-11 13-25 16-24 17-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 11-13 11-17 13-14 14-15 15-16
16-17
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 6-9 9-10 10-11
exact bonds :
1-19 2-20 3-21 4-22 5-7 7-8 8-9 13-25 16-24 17-23
normalized bonds :
11-13 11-17 13-14 14-15 15-16 16-17
isolated ring systems :
containing 1 : 11 :

```

G1:C,S

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:CLASS 21:CLASS
22:CLASS 23:CLASS 24:CLASS 25:CLASS

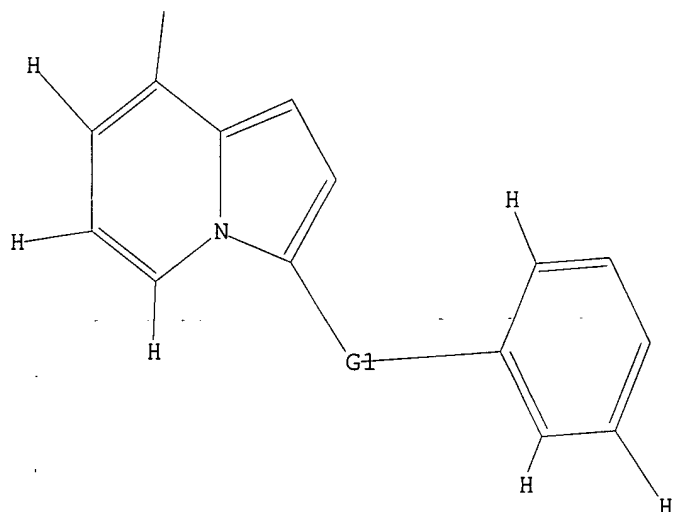
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:41:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 363 TO ITERATE

100.0% PROCESSED 363 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 6117 TO 8403

PROJECTED ANSWERS: 1486 TO 2714

L2 50 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 13:41:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7928 TO ITERATE

100.0% PROCESSED 7928 ITERATIONS

2358 ANSWERS

SEARCH TIME: 00.00.01

L3 2358 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 13:41:13 ON 13 MAR 2007

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FILE COVERS 1907 - 13 Mar 2007 VOL 146 ISS 12  
FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

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<http://www.cas.org/infopolicy.html>

=> s l3 full  
L4 189 L3

=> s l4 and py<2002  
21882175 PY<2002  
L5 150 L4 AND PY<2002

=> d ibib abs hitstr 1-20

L5 ANSWER 1 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:887680 CAPLUS  
DOCUMENT NUMBER: 139:364844  
TITLE: Preparation of indolizines as sPLA2 inhibitors  
INVENTOR(S): Dillard, Robert D.; Hagishita, Sanji; Ohtani, Mitsuaki  
PATENT ASSIGNEE(S): Eli Lilly and Company, USA; Shiongi and Company, Ltd.  
SOURCE: U.S., 62 pp., Cont.-in-part of U.S. Ser. No. 278,445.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6645976	B1	20031111	US 1997-765566	19970428
WO 9603383	A1	19960208	WO 1995-US9381	19950720 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1994-278445	A2 19940721
			WO 1995-US9381	W 19950720
OTHER SOURCE(S):		MARPAT 139:364844		
GI				

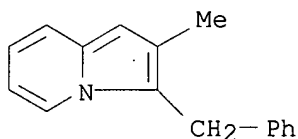
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I, II, III [wherein X = O or S; R11 = independently H, alkyl, or halo; R12 = H, halo, (cyclo)alkyl, cycloalkenyl, alkoxy, alkylthio, or a non-interfering substituent having 1-3 atoms other than H; R13 = (un)substituted alkyl, alkenyl, alkynyl, (hetero)cyclcyl optionally connected by a linking group; R15 and R16 = independently H, non-interfering substituent, or (un)substituted (hetero)cyclcyl; R17 and R18 = independently H, non-interfering substituent, or acidic linker; with the proviso that at least one of R17 and R18 must be an acidic linker; or pharmaceutically acceptable salt, ester, or amide prodrug derivs. thereof], and their 3-acetamide, 3-acetic acid hydrazide, and 3-glyoxylamide analogs were prepared as inhibitors of human secreted phospholipase A2 (sPLA2) mediated release of fatty acids. For example, conversion of 2-methyl-5-methoxypyridine to the anion in THF using lithium diisopropylamide and subsequent reaction with benzonitrile produced 5-methoxy-2-phenacylpyridine (57.0%). Cyclization of the pyridine derivative with 1-bromo-2-butanone using NaHCO<sub>3</sub> in acetone gave the 1-benzoylindolizine (90.7%), which was reduced by LAH to give 1-benzyl-2-ethyl-6-methoxyindolizine (94.5%). Acylation (98.5%) with Et oxalyl chloride in benzene, followed by saponification with LiOH in H<sub>2</sub>O and amidation using NH<sub>4</sub>OH, provided 2-(1-benzyl-2-ethyl-6-methoxyindolizin-3-yl)glyoxylamide. Demethylation by BBr<sub>3</sub> in CH<sub>2</sub>Cl<sub>2</sub>, coupling with Et 4-bromobutyrate (56.2%) in the presence of NaH in DMF, and hydrolysis with LiOH gave the title indolizine IV (49.9%). Eighty-eight compds. of the invention inhibited recombinant human sPLA2 in a chromogenic assay with IC<sub>50</sub> values ranging from 0.006  $\mu$ M to 1.1  $\mu$ M, in contrast to IC<sub>50</sub> values >50  $\mu$ M for comparative examples. Administration of 10/mg/kg of the representative compound, 2-[8-(carbomethoxymethoxy)-2-ethyl-3-(2-phenylbenzyl)indolizin-1-yl]glyoxylamide, improved the survival rate of male Wistar rats with sPLA2-induced pancreatitis from 33.3% (vehicle) to 91.7%. Thus, invention compds. and their pharmaceutical formulations are useful for the treatment of conditions such as septic shock, adult respiratory distress syndrome, pancreatitis, trauma, bronchial asthma, allergic rhinitis, and rheumatoid arthritis.

IT 80413-24-7P, 3-Benzyl-2-methylindolizine 177558-84-8P, Ethyl 3-benzyl-2-methylindolizine-1-carboxylate 177558-87-1P, 3-Benzyl-2-methylindolizine-1-carboxylic acid  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)

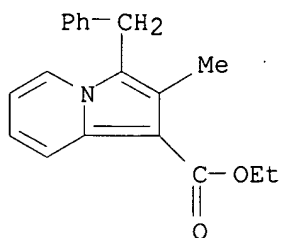
RN 80413-24-7 CAPLUS

CN Indolizine, 2-methyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

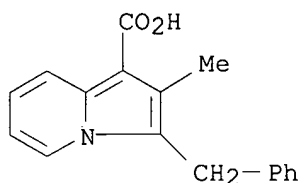


RN 177558-84-8 CAPLUS

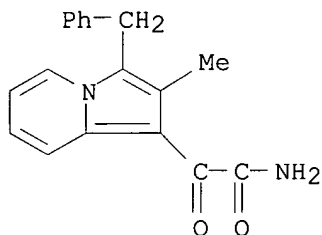
CN 1-Indolizinecarboxylic acid, 2-methyl-3-(phenylmethyl)-, ethyl ester (9CI)  
 (CA INDEX NAME)



RN 177558-87-1 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 2-methyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



IT 177556-92-2P, 2-(3-Benzyl-2-methylindolizin-1-yl)glyoxylamide  
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (sPLA2 inhibitor; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)  
 RN 177556-92-2 CAPLUS  
 CN 1-Indolizineacetamide, 2-methyl- $\alpha$ -oxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

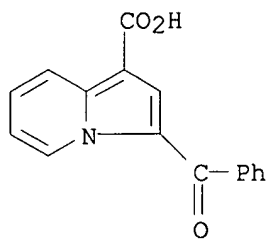
L5 ANSWER 2 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:861066 CAPLUS  
 DOCUMENT NUMBER: 139:117275  
 TITLE: Product class 16: indolizines  
 AUTHOR(S): Shipman, M.  
 CORPORATE SOURCE: School of Chemistry, University of Exeter, Exeter, EX4 4QD, UK  
 SOURCE: Science of Synthesis (2001), 10, 745-787  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 AB A review describes some of the most useful methods for the synthesis of indolizines. The methods described are categorized as synthesis by ring-closure reactions; ring transformation; and substituent modification.  
 IT 25627-87-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of indolizines and synthetic modification of substituents)

RN 25627-87-6 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



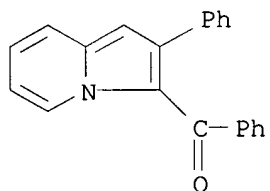
IT 14759-45-6P 17281-78-6P 25314-92-5P  
25627-81-0P 36944-59-9P 36944-82-8P  
96206-93-8P 155787-86-3P 155787-87-4P  
155787-88-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of indolizines via ring-closure reactions and ring transformations)

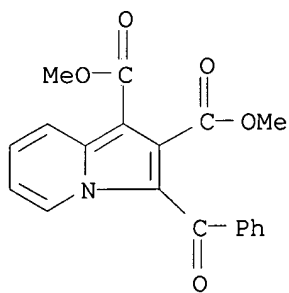
RN 14759-45-6 CAPLUS

CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



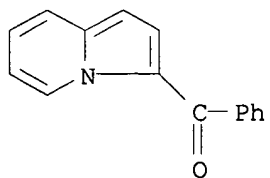
RN 17281-78-6 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-, dimethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 25314-92-5 CAPLUS

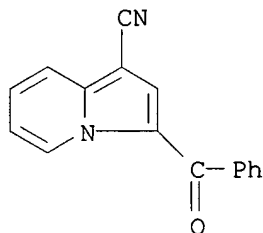
CN Methanone, 3-indolizinyphenyl- (9CI) (CA INDEX NAME)





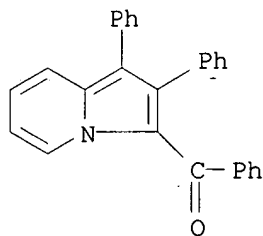
RN 25627-81-0 CAPLUS

CN 1-Indolizinecarbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



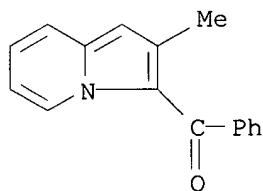
RN 36944-59-9 CAPLUS

CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



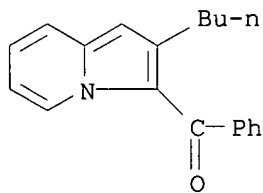
RN 36944-82-8 CAPLUS

CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



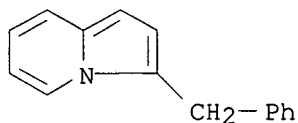
RN 96206-93-8 CAPLUS

CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

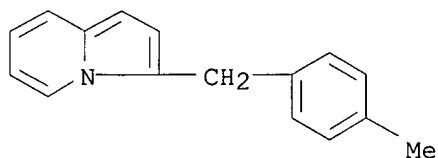


RN 155787-86-3 CAPLUS

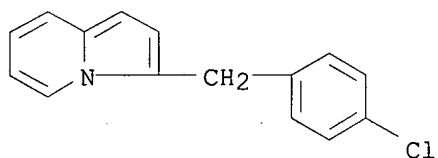
CN Indolizine, 3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 155787-87-4 CAPLUS  
CN Indolizine, 3-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

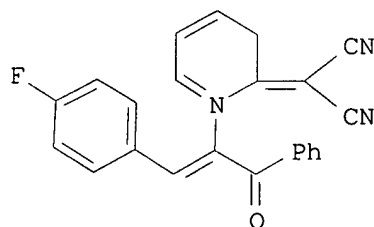


RN 155787-88-5 CAPLUS  
CN Indolizine, 3-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

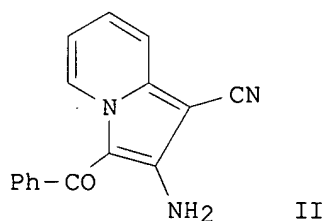


REFERENCE COUNT: 176 THERE ARE 176 CITED REFERENCES AVAILABLE FOR  
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FORMAT

L5 ANSWER 3 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:274976 CAPLUS  
DOCUMENT NUMBER: 137:185383  
TITLE: Synthesis of 1-(1-Aroyl-2-arylvinyl)-2-dicyanomethylen-  
1,2-dihydropyridines from 2-chloropyridinium salts and  
unsaturated nitriles  
AUTHOR(S): Khoroshilov, G. E.  
CORPORATE SOURCE: Taras Shevchenko Lugansk State University, Luhansk,  
348011, Ukraine  
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY,  
United States) (Translation of Khimiya  
Geterotsiklicheskikh Soedinenii) (2001),  
37(9), 1141-1144  
CODEN: CHCCAL; ISSN: 0009-3122  
PUBLISHER: Kluwer Academic/Consultants Bureau  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:185383  
GI



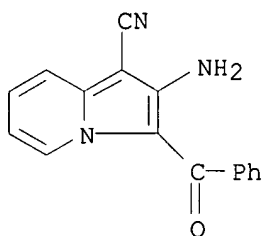
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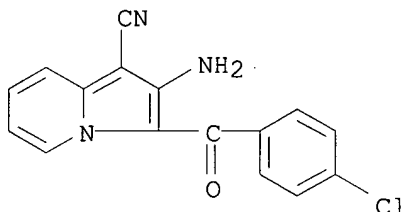
II

AB 1-(1-Aroyl-2-arylvinyl)-2-dicyanomethylene-1,2-dihydropyridines, e.g. I,  
are formed from 1-(aroylmethyl)-2-chloropyridinium bromides and  
arylmethylenemalonitriles in ethanol at room temperature in the presence of a  
two-fold excess of triethylamine. The products are converted into  
2-amino-3-aroyl-1-cyanoindolizines, e.g. II, on boiling in acetic acid.

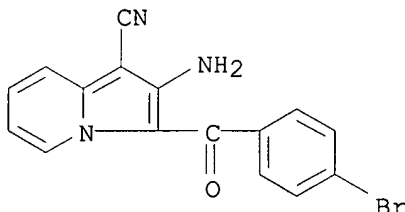
IT 63014-77-7P 353262-87-0P 353262-89-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of 1-(1-aryl-2-arylvinyl)-2-dicyanomethylen-1,2-  
 dihydropyridines from 2-chloropyridinium salts and unsatd. nitriles via  
 condensation reaction)  
 RN 63014-77-7 CAPLUS  
 CN 1-Indolizinecarbonitrile, 2-amino-3-benzoyl- (9CI) (CA INDEX NAME)



RN 353262-87-0 CAPLUS  
 CN 1-Indolizinecarbonitrile, 2-amino-3-(4-chlorobenzoyl)- (9CI) (CA INDEX NAME)



RN 353262-89-2 CAPLUS  
 CN 1-Indolizinecarbonitrile, 2-amino-3-(4-bromobenzoyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:482859 CAPLUS

DOCUMENT NUMBER: 135:282674

TITLE: 4-(Benzoylindoliziny)butyric acids; novel  
 nonsteroidal inhibitors of steroid 5 $\alpha$ -reductase.  
 III

AUTHOR(S): Sawada, Kozo; Okada, Satoshi; Kuroda, Akio; Watanabe,  
 Shinya; Sawada, Yuki; Tanaka, Hirokazu

CORPORATE SOURCE: Exploratory Research Laboratories, Fujisawa  
 Pharmaceutical Co., Ltd., Tsukuba, 300-2698, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2001),  
 49(7), 799-813

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:282674

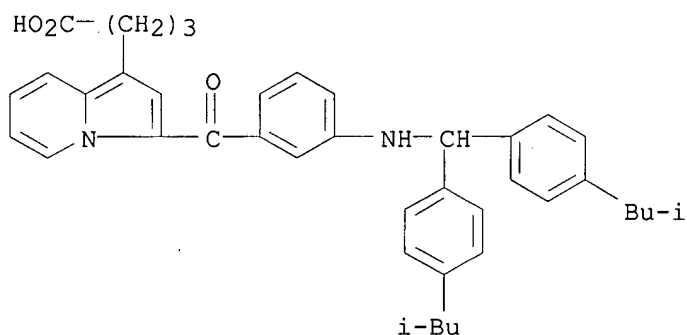
AB A novel series of indolizinebutyric acids with various benzoyl substituents was synthesized to develop nonsteroidal inhibitors of steroid 5 $\alpha$ -reductase, and the structure-activity relationships in this series were studied. The authors previously reported the structure-activity relationships in a series of indolebutyric acids as well as the discovery of the novel nonsteroidal 5 $\alpha$ -reductase inhibitor, FK143. The authors have now made other modifications to this compound to improve in vivo inhibitory activity. By altering the heterocyclic nucleus and changing the benzoyl substituent the authors have succeeded in identifying the strongly active compound, FK687, (S)-4-[1-[4-[[1-(4-isobutylphenyl)butyl]oxy]benzoyl]indolizin-3-yl]butyric acid, which displays strong in vitro inhibitory activity against the human enzyme and in vivo inhibitory activity against the castrated young rat model. This compound should be a useful agent for the treatment of benign prostatic hyperplasia.

IT 365280-19-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of (benzoylindoliziny)butyric acids as novel nonsteroidal inhibitors of steroid 5 $\alpha$ -reductase in relation to structure and treatment of benign prostatic hyperplasia)

RN 365280-19-9 CAPLUS

CN 1-Indolizinebutanoic acid, 3-[3-[[bis[4-(2-methylpropyl)phenyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)



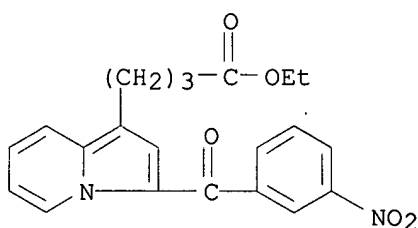
IT 146922-53-4P 146922-61-4P 146923-35-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

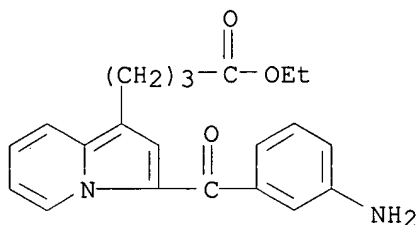
(preparation of (benzoylindoliziny)butyric acids as novel nonsteroidal inhibitors of steroid 5 $\alpha$ -reductase in relation to structure and treatment of benign prostatic hyperplasia)

RN 146922-53-4 CAPLUS

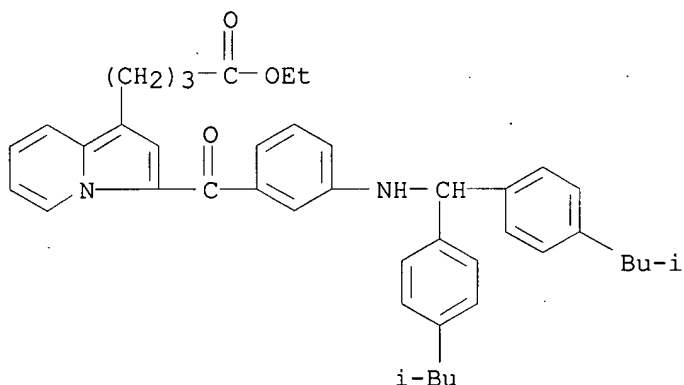
CN 1-Indolizinebutanoic acid, 3-(3-nitrobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 146922-61-4 CAPLUS  
 CN 1-Indolizinebutanoic acid, 3-(3-aminobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



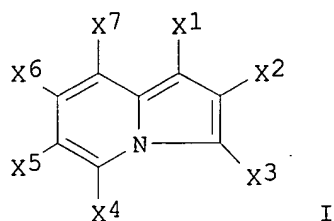
RN 146923-35-5 CAPLUS  
 CN 1-Indolizinebutanoic acid, 3-[3-[[bis[4-(2-methylpropyl)phenyl]methyl]amino]benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:782810 CAPLUS  
 DOCUMENT NUMBER: 133:357083  
 TITLE: Organic electroluminescent component  
 INVENTOR(S): Nakatsuka, Masakatsu; Shimamura, Takehiko  
 PATENT ASSIGNEE(S): Mitsui Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000311787	A	20001107	JP 2000-41097	20000218 <--
PRIORITY APPLN. INFO.:			JP 1999-42856	A 19990222
OTHER SOURCE(S):	MARPAT	133:357083		
GI				



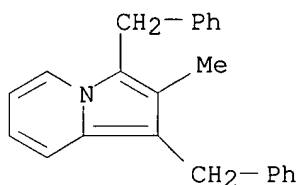
AB The invention refers to an organic electroluminescent component comprising an indolizine compound I [X1-7 = H, halo, straight chain or branched alkyl, straight chain, branched or ring alkoxy, (un)substituted aryl, aralkyl, aryloxy, or alkenyl; where X1,2, X2,3, X3,4, X4,5, X5,6 and X6,7 can be joined to form a ring] as a conductor.

IT 160663-15-0 160663-20-7 304885-98-1

RL: DEV (Device component use); USES (Uses)  
(organic electroluminescent component)

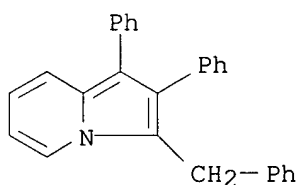
RN 160663-15-0 CAPLUS

CN Indolizine, 2-methyl-1,3-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



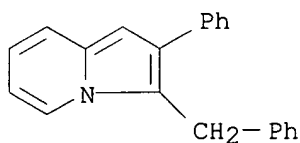
RN 160663-20-7 CAPLUS

CN Indolizine, 1,2-diphenyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 304885-98-1 CAPLUS

CN Indolizine, 2-phenyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:757464 CAPLUS

DOCUMENT NUMBER: 134:42108

TITLE: Synthesis of some new pyrimido[5,4-a]indolizines

AUTHOR(S): El-Salam, Osama I. Abd

CORPORATE SOURCE: Applied Organic Chemistry Department, National Research Center, Cairo, 12622, Egypt

SOURCE: Monatshefte fuer Chemie (2000), 131(9),  
959-965  
CODEN: MOCMB7; ISSN: 0026-9247  
PUBLISHER: Springer-Verlag Wien  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 134:42108

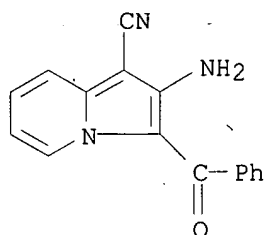
AB The synthesis of new pyrimido[5,4-a]indolizines by reaction of  
2-aminoindolizine-1-carbonitrile or Et 2-aminoindolizine-1-carboxylate (I)  
with electrophilic reagents is described. For example, N-acetylation of I  
with Ac<sub>2</sub>O followed by cyclization with NH<sub>4</sub>OH gave 10-benzoyl-2-  
methylpyrimido[5,4-a]indolizine-4(3H)-one (II). II showed bactericidal  
activity against Bacillus subtilis comparable to that of oxytetracycline.

IT 63014-77-7 63014-81-3

RL: RCT (Reactant); RACT (Reactant or reagent)  
(synthesis and antimicrobial activities of pyrimidoindolizines)

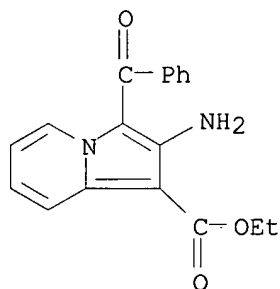
RN 63014-77-7 CAPLUS

CN 1-Indolizinecarbonitrile, 2-amino-3-benzoyl- (9CI) (CA INDEX NAME)



RN 63014-81-3 CAPLUS

CN 1-Indolizinecarboxylic acid, 2-amino-3-benzoyl-, ethyl ester (9CI) (CA  
INDEX NAME)

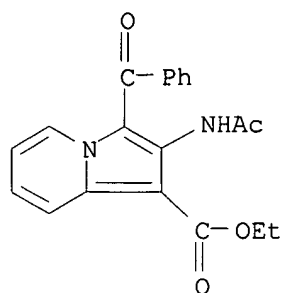


IT 312956-54-0P 312956-55-1P 312956-59-5P

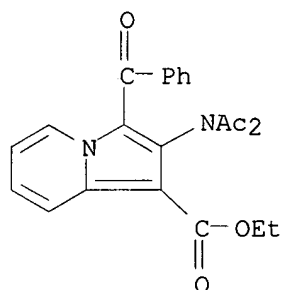
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(synthesis and antimicrobial activities of pyrimidoindolizines)

RN 312956-54-0 CAPLUS

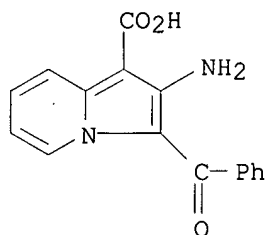
CN 1-Indolizinecarboxylic acid, 2-(acetylamino)-3-benzoyl-, ethyl ester (9CI)  
(CA INDEX NAME)



RN 312956-55-1 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(diacetylamino)-, ethyl ester  
 (9CI) (CA INDEX NAME)



RN 312956-59-5 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 2-amino-3-benzoyl-, monopotassium salt (9CI)  
 (CA INDEX NAME)



● K

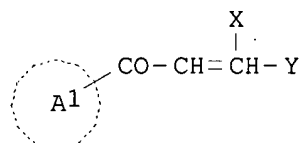
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:457027 CAPLUS  
 DOCUMENT NUMBER: 133:89529  
 TITLE: Preparation of aromatic heterocycle compounds having  
 HIV integrase inhibiting activities  
 INVENTOR(S): Fujishita, Toshio; Yoshinaga, Tomokazu; Sato, Akihiko  
 PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 554 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039086	A1	20000706	WO 1999-JP7101	19991217 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2353961	A1	20000706	CA 1999-2353961	19991217 <--
BR 9916583	A	20010925	BR 1999-16583	19991217 <--
EP 1142872	A1	20011010	EP 1999-961299	19991217 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101886	T2	20011221	TR 2001-200101886	19991217 <--
AU 763040	B2	20030710	AU 2000-17979	19991217
NZ 512184	A	20030829	NZ 1999-512184	19991217
HU 200201472	A2	20031028	HU 2002-1472	19991217
RU 2225860	C2	20040320	RU 2001-120016	19991217
ZA 2001004622	A	20020606	ZA 2001-4622	20010606
US 6620841	B1	20030916	US 2001-857632	20010607
IN 2001CN00843	A	20050304	IN 2001-CN843	20010618
NO 2001003179	A	20010827	NO 2001-3179	20010622 <--
US 6645956	B1	20031111	US 2002-288380	20021106
US 2004002485	A1	20040101	US 2003-463816	20030618
US 7098201	B2	20060829		
PRIORITY APPLN. INFO.:			JP 1998-371270	A 19981225
			JP 1999-247479	A 19990901
			WO 1999-JP7101	W 19991217
			US 2001-857632	A3 20010607
			US 2002-288380	A3 20021106
OTHER SOURCE(S):	MARPAT 133:89529			
GI				



I

AB Compds. represented by general formula (I), tautomers of the same, prodrugs of both, or pharmaceutically acceptable salts or hydrates of them [wherein X is hydroxyl, protected hydroxyl or optionally substituted amino; Y is COORA (wherein RA is hydrogen or an ester residue), CONRBRC (wherein RB and RC are each independently hydrogen or an amide residue), optionally substituted aryl or optionally substituted heteroaryl; and A1 is optionally substituted heteroaryl, with the proviso that the cases wherein either or both of Y and A1 are optionally substituted indol-3-yl are excepted.] are prepared. These compds. are useful as antiviral, anti-retroviral, anti-HIV, anti-HTLV-1, anti-FIV (feline immunodeficiency virus), anti-SIV (simian immunodeficiency virus), and anti-AIDS agents and enhance anti-HIV activities of adsorption, TAT (HIV-1 transactivator protein), HIV-1 Rev protein, and reverse transcriptase inhibitors. Thus, treatment of 2-acetyl-5-(4-fluorobenzyl)furan was treated dropwise with lithium bistrimethylsilylamide in THF at -70° to -10° followed by condensation with Et 1-trityl-1H-1,2,4-triazole-3-carboxylate at room temperature and deprotection with 1 N HCl/dioxane gave 61% 1-[5-(4-fluorobenzyl)furan-2-yl]-3-hydroxy-3-(1H-1,2,4-triazol-3-

yl)propene (II). II showed IC<sub>50</sub> of 0.53 µg/mL against HIV-1 integrase and exhibited EC<sub>50</sub> of 57, 35, 57, and 44 ng/mL for inhibiting HIV-1 NL432, HIV-2 ROD, SIVmac, and SIVagm, resp.

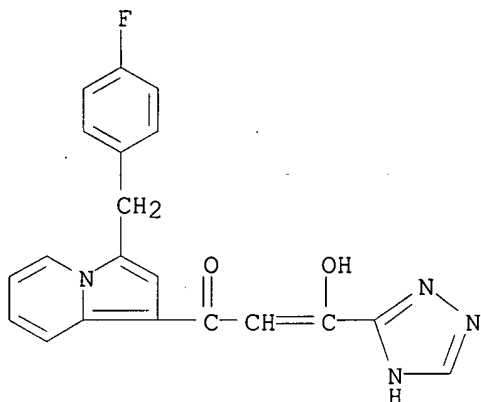
IT 280572-76-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aromatic heterocycle compds. having HIV integrase inhibiting activities)

RN 280572-76-1 CAPLUS

CN 2-Propen-1-one, 1-[3-[(4-fluorophenyl)methyl]-1-indoliziny]-3-hydroxy-3-(1H-1,2,4-triazol-3-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

36

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:801102 CAPLUS

DOCUMENT NUMBER: 132:122502

TITLE: Preparation of 1-(trifluoroacetyl)indolizines and their derivatives via cycloaddition of pyridinium N-ylides with 4-ethoxy-1,1,1-trifluorobut-3-en-2-one  
AUTHOR(S): Zhu, Shi-zheng; Qin, Chao-yue; Wang, Yan-Li; Chu, Qian-li

CORPORATE SOURCE: Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China

SOURCE: Journal of Fluorine Chemistry (1999), 99(2), 183-187

CODEN: JFLCAR; ISSN: 0022-1139

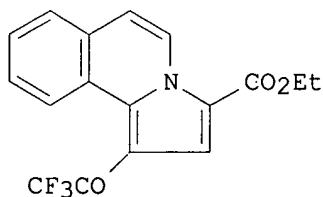
PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:122502

GI



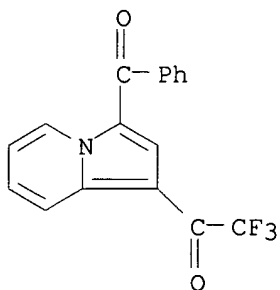
I

AB Under basic reaction conditions pyridinium or isoquinolinium N-ylides (C<sub>5</sub>H<sub>5</sub>N+CH<sub>2</sub>Y Br- or C<sub>9</sub>H<sub>7</sub>N+CH<sub>2</sub>Y Br-; Y = CO<sub>2</sub>Me, CO<sub>2</sub>Et, CN, PhCO) reacted readily with 4-ethoxy-1,1,1-trifluorobut-3-en-2-one to give 1-(trifluoroacetyl)indolizines or -pyrrolo[1,2-a]isoquinolines. The mol. structure of product I was determined

IT 256234-53-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (cycloaddn. of pyridinium or isoquinolinium N-ylides with ethoxytrifluorobutenone)

RN 256234-53-4 CAPLUS

CN Ethanone, 1-(3-benzoyl-1-indoliziny)-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:563227 CAPLUS

DOCUMENT NUMBER: 131:310616

TITLE: Novel 1,3-dipolar cycloaddition of quinoxalinium N-ylide to alkene promoted by MnO<sub>2</sub>: a new approach to synthesis of pyrrolo[1,2-a]-quinoxalines

AUTHOR(S): Zhou, Jian; Zhang, Lande; Hu, Yuefei; Hu, Hongwen

CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China

SOURCE: Journal of Chemical Research, Synopses (1999), (9), 552-553

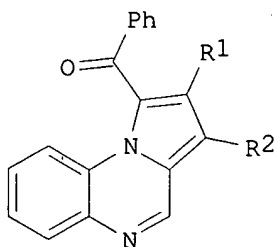
PUBLISHER: CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Royal Society of Chemistry

LANGUAGE: English

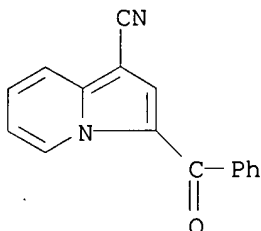
OTHER SOURCE(S): CASREACT 131:310616

GI



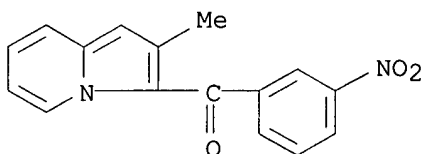
AB A novel approach to synthesize pyrrolo[1,2-a]quinoxalines I [R<sub>1</sub> = H, CO<sub>2</sub>Et, R<sub>2</sub> = cyano, CO<sub>2</sub>Me, COMe, CO<sub>2</sub>Et; R<sub>1</sub>R<sub>2</sub> = CO(NPh)CO] was developed successfully by 1,3-dipolar cycloaddn. of a quinoxalinium N-ylide to alkenes R<sub>1</sub>CH:CHR<sub>2</sub> in the presence of MnO<sub>2</sub> under very convenient conditions and with moderate yields (40-52%).

IT 25627-81-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of pyrroloquinoxalines by dipolar cycloaddn. of alkenes to  
 quinoxalinium N-ylide)  
 RN 25627-81-0 CAPLUS  
 CN 1-Indolizinecarbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)

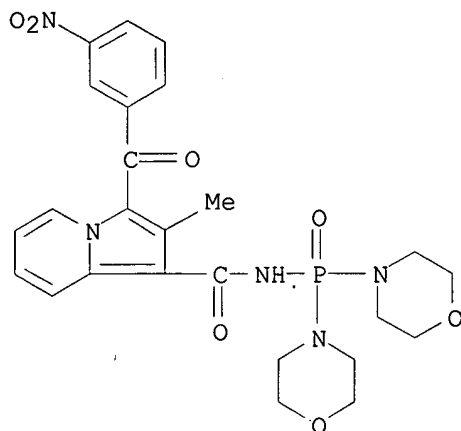


REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:327734 CAPLUS  
 DOCUMENT NUMBER: 131:73717  
 TITLE: C-acylation of electron-rich heterocyclic compounds  
 with Kirsanov isocyanate  
 AUTHOR(S): Tolmachev, Andrei A.; Chaikovskaya, Aleksandra A.;  
 Smaliy, Radomir V.; Kudrya, Tamara N.; Yurchenko,  
 Aleksandr A.; Pinchuk, Aleksandr M.  
 CORPORATE SOURCE: Institute of Organic Chemistry, National Academy of  
 Sciences of Ukraine, Kiev, 253660, Ukraine  
 SOURCE: Heteroatom Chemistry (1999), 10(4), 343-348  
 CODEN: HETCE8; ISSN: 1042-7163  
 PUBLISHER: John Wiley & Sons, Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 131:73717  
 AB Pyrroles, indoles, indolizines, and 2-methylfuran are vigorously  
 C-acylated with isocyanatophosphoryl dichloride. E.g., N-methylpyrrole  
 reacts with Cl<sub>2</sub>P(O)NCO in octane at room temperature to give a 90% yield of  
 1-methylpyrrole-2-carboxamidophosphoryl dichloride. The resulting  
 heteroaryl-substituted isocyanatophosphoryl dichlorides provide a  
 convenient access to a variety of products.  
 IT 228566-56-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (C-acylation reaction with isocyanatophosphoryl dichloride to give an  
 acylated pyrrole derivative)  
 RN 228566-56-1 CAPLUS  
 CN Methanone, (2-methyl-3-indolizinyl)(3-nitrophenyl)- (9CI) (CA INDEX NAME)



IT 228566-54-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 228566-54-9 CAPLUS  
 CN 1-Indolizinecarboxamide, N-(di-4-morpholinylphosphinyl)-2-methyl-3-(3-  
 nitrobenzoyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:281626 CAPLUS

DOCUMENT NUMBER: 130:337991

TITLE: Facile one-step synthesis of 1-acylindolizines by the reaction of pyridinium salts with Mannich bases in the presence of TPCD

AUTHOR(S): Wang, Bing-Xiang; Hu, Jia-Xin; Hu, Yue-Fei; Hu, Hong-Wen

CORPORATE SOURCE: Dep. Chem., Nanjing Univ., Nanjing, 210093, Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(3), 418-420

CODEN: KTHPDM; ISSN: 0251-0790

PUBLISHER: Gaodeng Jiaoyu Chubanshe

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A facile one-step method is presented for the synthesis of 1-acylindolizines in moderate yield by the reaction of pyridinium salts with Mannich bases in the presence of NaHCO<sub>3</sub> and a mild oxidizing agent, tetrakispyridine cobalt dichromate (TPCD). For example, 1-acetyl-3-benzoylindolizine was prepared in 36% yield from phenacylpyridinium bromide and 4-dimethylamino-2-butanone hydrochloride.

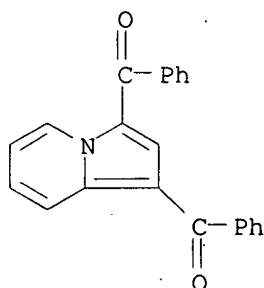
IT 17281-91-3P 51386-41-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

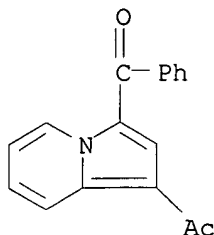
(synthesis of 1-acylindolizines by reaction of pyridinium salts with Mannich bases in presence of TPCD)

RN 17281-91-3 CAPLUS

CN Methanone, 1,3-indolizinediylbis[phenyl- (9CI) (CA INDEX NAME)

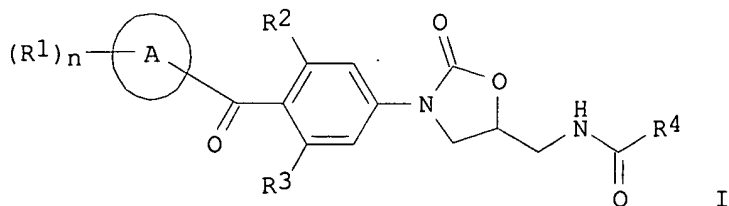


RN 51386-41-5 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-1-indoliziny)- (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:184253 CAPLUS  
 DOCUMENT NUMBER: 130:223263  
 TITLE: Preparation and bactericidal activity of  
 [(aminomethyl)oxooxazolidinyl]benzene derivatives  
 INVENTOR(S): Mills, Stuart Dennett  
 PATENT ASSIGNEE(S): Zeneca Limited, UK  
 SOURCE: PCT Int. Appl., 74 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9911642	A1	19990311	WO 1998-GB2556	19980825 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9888721	A	19990322	AU 1998-88721	19980825 <--
EP 1007525	A1	20000614	EP 1998-940384	19980825 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001514259	T	20010911	JP 2000-508681	19980825 <--
ZA 9807861	A	19990301	ZA 1998-7861	19980828 <--
US 6362191	B1	20020326	US 2000-485972	20000218
PRIORITY APPLN. INFO.:			GB 1997-18208	A 19970829
			GB 1997-27160	A 19971224
			WO 1998-GB2556	W 19980825
OTHER SOURCE(S):		MARPAT 130:223263		
GI				



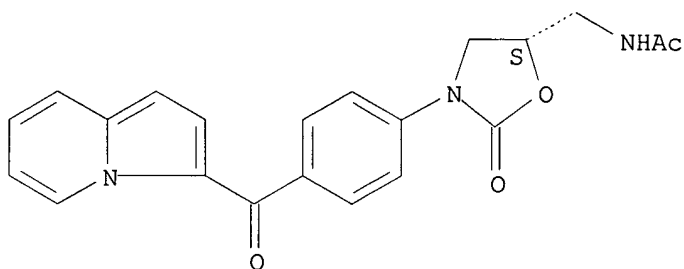
AB The title compds. I [A = 5-membered heteroaryl ring, bicyclic benzo system containing 5-membered heteroaryl ring, bicyclic or tricyclic heteroaryl ring system with at least one bridgehead nitrogen and optionally a further 1-3 heteroatoms chosen from oxygen, sulfur and nitrogen; R1 = OH, halo, amino, nitro, cyano, carboxy, thiol, C1-4alkanoyloxy, C1-4alkoxycarbonyl, dimethylaminomethyleneaminocarbonyl, C1-4alkyl, C2-4alkenyl, C2-4alkynyl, C1-4alkoxy, optionally substituted Ph, an optionally substituted 5- or 6-membered heteroaryl ring or hydroxyC1-4alkyl; n = 0-6; R2, R3 = H, F; R4 = C1-4alkyl], useful as antibacterial agents against gram-pos. pathogens, were prepared E.g., N-([(5S)-N-(4-[imidazol-2-ylcarbonyl]phenyl)-2-oxooxazolidin-5-yl)methyl)acetamide was prepared

IT 221184-58-3P 221184-73-2P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation and bactericidal activity of [(aminomethyl)oxooxazolidinyl]benzene derivs.)

RN 221184-58-3 CAPLUS

CN Acetamide, N-[[[(5S)-3-[4-(3-indolizinyllcarbonyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

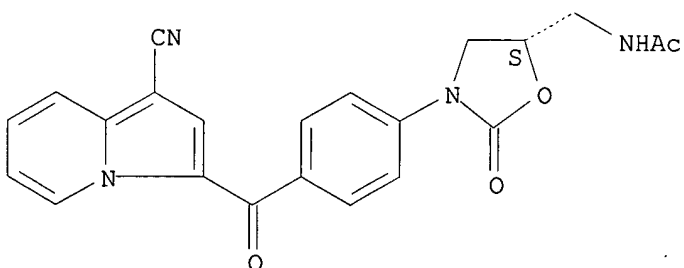
Absolute stereochemistry.



RN 221184-73-2 CAPLUS

CN Acetamide, N-[[[(5S)-3-[4-[(1-cyano-3-indolizinyllcarbonyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

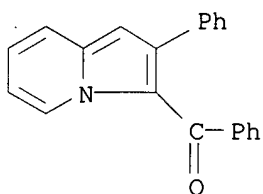
ACCESSION NUMBER: 1999:43881 CAPLUS

DOCUMENT NUMBER: 130:139272

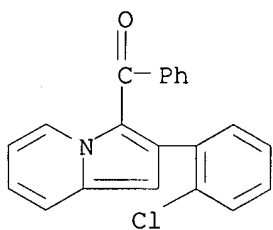
TITLE: The first approach to the synthesis of 1-unsubstituted 2-aryllindolizines by intramolecular 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate

AUTHOR(S): Zhou, Jian; Hu, Yue Fei; Hu, Hong Wen

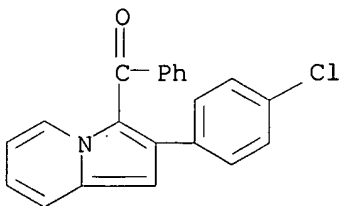
CORPORATE SOURCE: Department Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
 SOURCE: Synthesis (1999), (1), 166-170  
 CODEN: SYNTBF; ISSN: 0039-7881  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 130:139272  
 AB A synthesis of 1-unsubstituted 2-arylindolizines by intramol. 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate was developed. Several 1-unsubstituted 2-aryl-3-acetyl-, 3-benzoyl-, 3-ethoxycarbonyl- and 3-(4-nitrobenzoyl)indolizines were synthesized under the mild conditions in reasonable to moderate yields.  
 IT 14759-45-6P 220152-04-5P 220152-05-6P  
 220152-06-7P 220152-07-8P 220152-08-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of arylindolizines by intramol. 1,5-dipolar cycloaddn. of (arylethenyl)pyridinium ylides)  
 RN 14759-45-6 CAPLUS  
 CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 220152-04-5 CAPLUS  
 CN Methanone, [2-(2-chlorophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

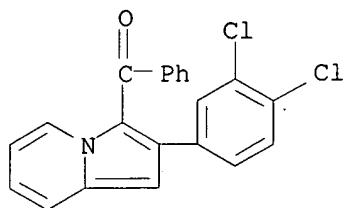


RN 220152-05-6 CAPLUS  
 CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

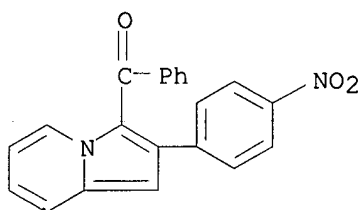


RN 220152-06-7 CAPLUS  
 CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

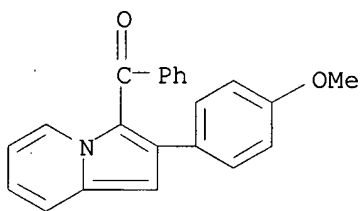




RN 220152-07-8 CAPLUS  
 CN Methanone, [2-(4-nitrophenyl)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



RN 220152-08-9 CAPLUS  
 CN Methanone, [2-(4-methoxyphenyl)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:43858 CAPLUS

DOCUMENT NUMBER: 130:139271

TITLE: A one-step approach to 1-(fluoroalkyl)indolizine derivatives

AUTHOR(S): Zhang, Xue-chun; Huang, Wei-yuan

CORPORATE SOURCE: Laboratory Organofluorine Chemistry, Shanghai Institute Organic Chemistry, Chinese Academy Sciences, Shanghai, 200032, Peop. Rep. China

SOURCE: Synthesis (1999), (1), 51-54  
 CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 130:139271

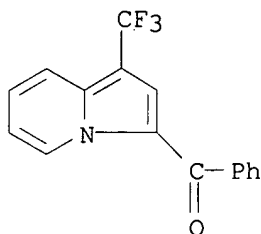
AB A facile 1-step method is presented for the synthesis of 1-(fluoroalkyl)-substituted indolizines in moderate to good yields by reactions of pyridinium, 4-methylpyridinium isoquinolinium, and pyridazinium ylides with  $\text{CF}_3\text{CBr}:\text{CH}_2$  and  $\text{Cl}(\text{CF}_2)_n\text{CH}:\text{CHI}$  ( $n = 2, 4, 6$ ), resp., in the presence of base.

IT 135339-04-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of (fluoroalkyl)indolizines)

RN 135339-04-7 CAPLUS

CN Methanone, phenyl[1-(trifluoromethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:547782 CAPLUS

DOCUMENT NUMBER: 129:290034

TITLE: Preparation of indolizine by intramolecular  
1,5-dipolar cycloaddition of pyridinium N-allylides

AUTHOR(S): Zhou, Jian; Hu, Yue-Fei; Hu, Hong-Wen

CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing,  
210093, Peop. Rep. China

SOURCE: Chemical Research in Chinese Universities (1998), 14(2), 213-214

CODEN: CRCUED; ISSN: 1000-9213

PUBLISHER: Higher Education Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Pyridinium or isoquinolinium allylides, prepared by treatment of  
1-chloro-1-buten-3-one and the corresponding pyridinium or isoquinolinium  
salts with Et3N at room temperature, were heated in toluene 3-5 h to give  
34-55%  
indolizines and benzo[g]indolizines.

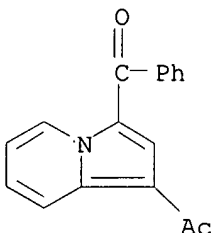
IT 51386-41-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of indolizine by intramol. 1,5-dipolar cycloaddn. of pyridinium  
N-allylides)

RN 51386-41-5 CAPLUS

CN Ethanone, 1-(3-benzoyl-1-indoliziny)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 16 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:121449 CAPLUS

DOCUMENT NUMBER: 128:217319

TITLE: A convenient synthesis of polyfluoroalkyl-substituted

pyrazolo[1,5-a]pyridine, pyrrolo[1,2-b]pyridazine and indolizine derivatives

AUTHOR(S): Zhang, Xue-chun; Huang, Wei-yuan

CORPORATE SOURCE: 354 Fenglin Lu, Shanghai Institute of Organic Chemistry, Laboratory of Organofluorine Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China

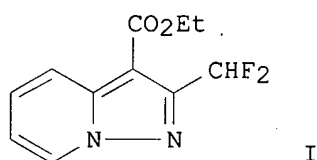
SOURCE: Journal of Fluorine Chemistry (1998), 87(1), 57-64

PUBLISHER: CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Elsevier Science S.A.

LANGUAGE: Journal

GI English



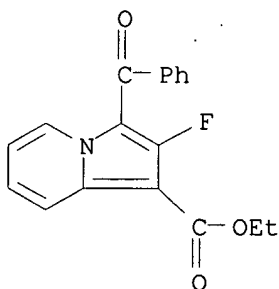
AB In the presence of base, Et 2,2-dihdropoly(per)fluoroalkanoates reacted with N-aminopyridinium iodide, N-amino- $\gamma$ -picolinium iodide or N-aminoisoquinolinium iodide, N-phenacylpyridazinium, N-phenacylpyridinium, and N-phenacylisoquinolinium bromides in DMF to give poly(per)fluoroalkyl-substituted pyrazolo[1,5-a] pyridine, e.g., I, pyrrolo[1,2-a]pyridazine, and indolizine derivs.

IT 204136-67-4P 204136-68-5P 204136-69-6P  
204136-70-9P 204136-71-0P 204136-79-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

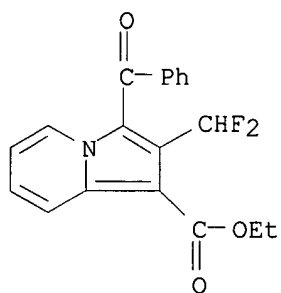
RN 204136-67-4 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-fluoro-, ethyl ester (9CI) (CA INDEX NAME)

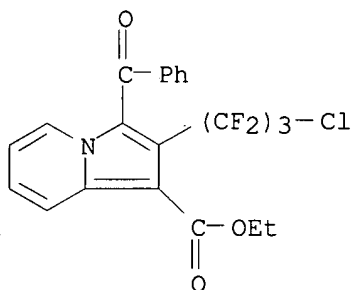


RN 204136-68-5 CAPLUS

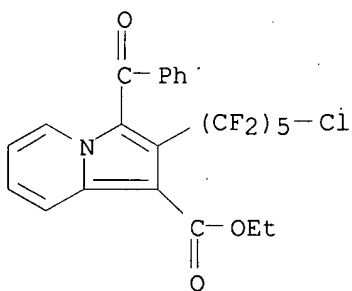
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(difluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



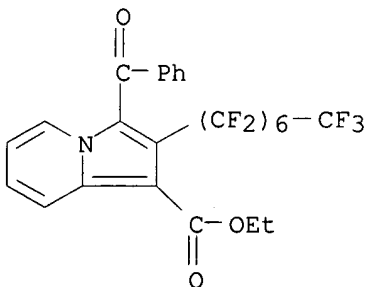
RN 204136-69-6 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(3-chloro-1,1,2,2,3,3-hexafluoropropyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 204136-70-9 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(5-chloro-1,1,2,2,3,3,4,4,5,5-decafluoropentyl)-, ethyl ester (9CI) (CA INDEX NAME)

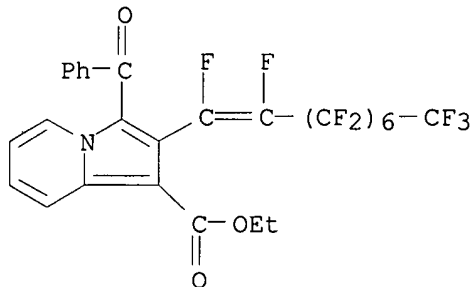


RN 204136-71-0 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(pentadecafluoroheptyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 204136-79-8 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluoro-1-nonenyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:757464 CAPLUS

DOCUMENT NUMBER: 128:48444

TITLE: Syntheses of anomeric pairs of new C-nucleosides via 1,3-dipolar cycloaddition reaction. Part 1

AUTHOR(S): Maqbool, Zahida; Hasan, Mashooda; Pott, Kevin T.; Malik, Abdul; Nizami, Tanveer Ahmad; Voelter, Wolfgang

CORPORATE SOURCE: Rensselaer Polytechnic Institute, Troy, NY, USA

SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1997), 52(11), 1383-1392

CODEN: ZNBSEN; ISSN: 0932-0776

PUBLISHER: Verlag der Zeitschrift fuer Naturforschung

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 128:48444

AB A convenient pathway to a variety of  $\beta$ - and  $\alpha$ -C-nucleosides was developed by utilizing 1,3-dipolar cycloaddn. reactions of various exo- and endocyclic heterocyclic ylides with  $\beta$  and  $\alpha$  anomers of 3-(2',3'-O-isopropylidene-5'-O-trityl-D-ribofuranosyl)propionate, resp. Assignment of configuration at C(1)' position of the C-nucleosides could be made by a comparative study of the properties of corresponding  $\alpha$  and  $\beta$  anomers with a reasonable degree of certainty.

IT 199996-87-7P 199996-88-8P

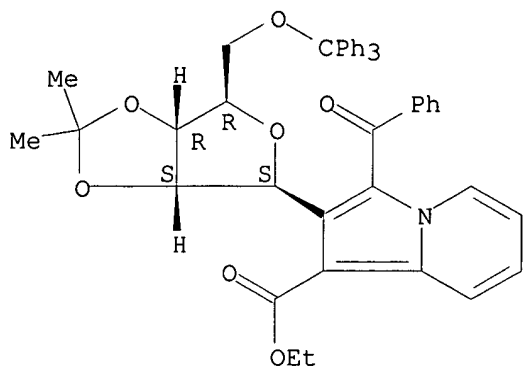
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of anomeric pairs of C-nucleosides via 1,3-dipolar cycloaddn.)

RN 199996-87-7 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[2,3-O-(1-methylethylidene)-5-O-(triphenylmethyl)- $\beta$ -D-ribofuranosyl]-, ethyl ester (9CI) (CA INDEX NAME)

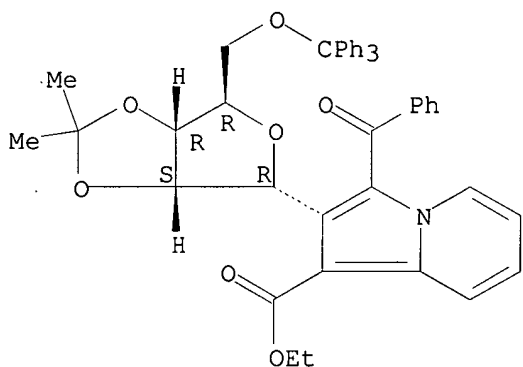
Absolute stereochemistry.



RN 199996-88-8 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[2,3-O-(1-methylethylidene)-5-O-(triphenylmethyl)-α-D-ribofuranosyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 199996-89-9P 199996-90-2P

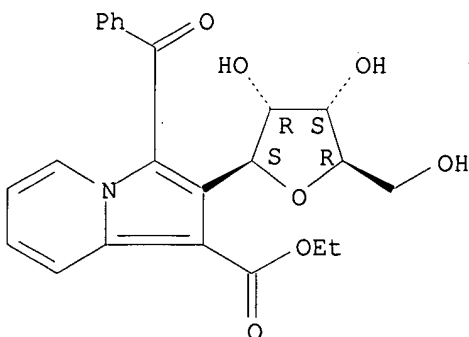
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of anomeric pairs of C-nucleosides via 1,3-dipolar cycloaddn.)

RN 199996-89-9 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-β-D-ribofuranosyl-, ethyl ester (9CI) (CA INDEX NAME)

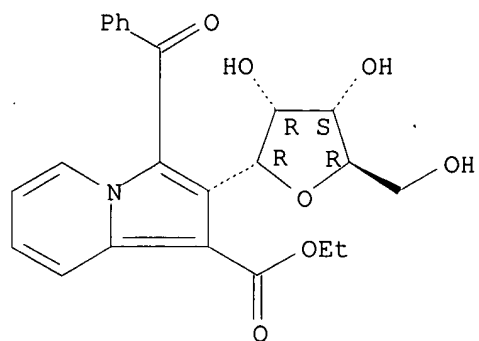
Absolute stereochemistry.



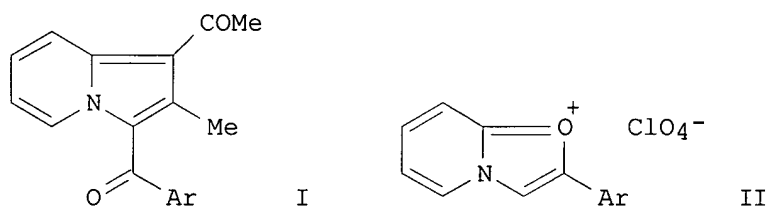
RN 199996-90-2 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-α-D-ribofuranosyl-, ethyl ester (9CI) (CA INDEX NAME)

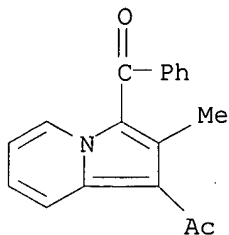
Absolute stereochemistry.



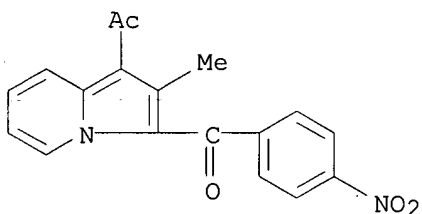
L5 ANSWER 18 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:748900 CAPLUS  
 DOCUMENT NUMBER: 128:61394  
 TITLE: Hetarenes with a bridge nitrogen atom. 5. Synthesis of the indolizine ring by transformation of the oxazolo[3,2-a]pyridinium cation when treated with acetylacetone  
 AUTHOR(S): Babaev, E. V.; Bozhenko, S. V.  
 CORPORATE SOURCE: M. V. Lomonosov Moscow State University, Moscow, 119899, Russia  
 SOURCE: Chemistry of Heterocyclic Compounds (New York) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (1997), 33(1), 125-126  
 CODEN: CHCCAL; ISSN: 0009-3122  
 PUBLISHER: Consultants Bureau  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Indolizines I (Ar = Ph, 4-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>) were prepared by the reaction of Na<sup>+</sup>-CH(COMe)<sub>2</sub> with oxazolopyridinium perchlorates II.  
 IT 200355-81-3P 200355-82-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of indolizines by cyclocondensation of acetylacetone with oxazolopyridinium perchlorates)  
 RN 200355-81-3 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-2-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)



RN 200355-82-4 CAPLUS  
 CN Ethanone, 1-[2-methyl-3-(4-nitrobenzoyl)-1-indoliziny]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 19 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:559901 CAPLUS

DOCUMENT NUMBER: 127:262368

TITLE: Rates of decarboxylation of the radical cations of indol-3-ylacetic acids and comparison with indolizin-1-ylacetic acids

AUTHOR(S): Mehta, Lina K.; Porssa, Manuchehr; Parrick, John; Candeias, Luis P.; Wardman, Peter

CORPORATE SOURCE: Department of Chemistry, Brunel University, Uxbridge, UB8 3PH, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1997), (8), 1487-1491

CODEN: JCPKBH; ISSN: 0300-9580

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The radical cations of indol-3-ylacetic acid and derivs. were found to eliminate CO<sub>2</sub> to yield skatolyl radicals with rates in the range ca. 10<sup>2</sup> to > 10<sup>5</sup> s<sup>-1</sup>, strongly dependent on substitution. For the radical cations substituted at nitrogen, the rate of decarboxylation did not vary with pH 4-7.5, but for those unsubstituted at nitrogen, deprotonation caused the rate of decarboxylation to decrease with increasing pH. The rate of decarboxylation of the radical cations exhibited a strong dependence on the resp. reduction potentials, with a 100 mV increase in reduction potential corresponding to a ca. tenfold increase in the rate of decarboxylation. Methylation at the side-chain α-position increased the rate of decarboxylation > sixfold, but insertion of a methylene group, as in 3-indol-3-ylpropionic acid or tryptophan, completely inhibited decarboxylation. In contrast, indolizin-1-ylacetic acids, which are isomers of indolylacetic acids in which the heterocyclic nitrogen is the bridgehead, did not decarboxylate on one-electron oxidation

IT 196391-93-2P 196391-94-3P

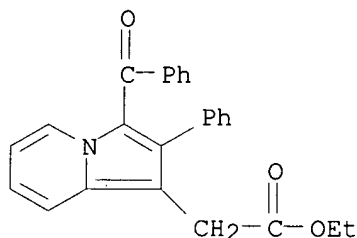
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)



(precursor; decarboxylation of radical cations of indol-3-ylacetic acids and comparison with indolizin-1-ylacetic acids)

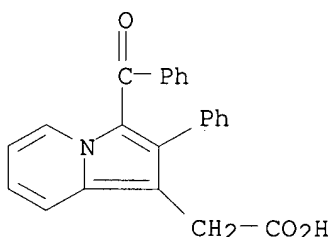
RN 196391-93-2 CAPLUS

CN 1-Indolizineacetic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 196391-94-3 CAPLUS

CN 1-Indolizineacetic acid, 3-benzoyl-2-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 20 OF 150 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:246472 CAPLUS

DOCUMENT NUMBER: 126:293244

TITLE: A convenient synthesis of 1-acylindolizines by 1,3-dipolar cycloaddition reactions of pyridinium ylides and  $\alpha,\beta$ -unsaturated aldehydes or ketones in the presence of tetrapyridinecobalt dichromate

AUTHOR(S): Zhang, Xuechun; Cao, Weili; Wei, Xudong; Hu, Hongwen  
CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China

SOURCE: Synthetic Communications (1997), 27(8), 1395-1403

CODEN: SYNCAV; ISSN: 0039-7911

PUBLISHER: Dekker

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In the presence of tetrapyridinecobalt dichromate ( $\text{CoPy}_4(\text{HCrO}_4)_2$ ), pyridinium ylides and  $\alpha,\beta$ -unsatd. aldehydes or ketones undergo 1,3-dipolar cycloaddn. reactions followed by in situ aromatization to give 1-acyl substituted indolizines in moderate to good yields.

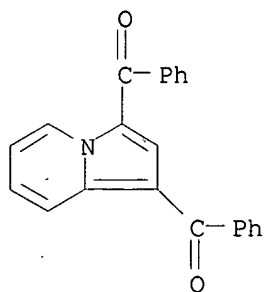
IT 17281-91-3P 51386-41-5P 107847-03-0P

189024-13-3P 189024-14-4P

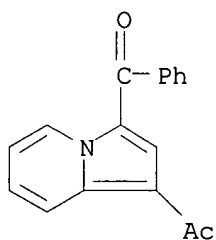
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 17281-91-3 CAPLUS

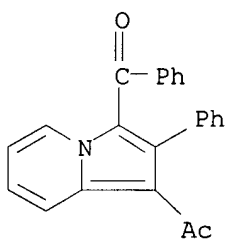
CN Methanone, 1,3-indolizinediylbis[phenyl- (9CI) (CA INDEX NAME)



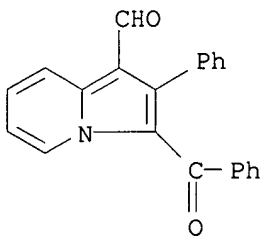
RN 51386-41-5 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-1-indolizinyl)- (9CI) (CA INDEX NAME)



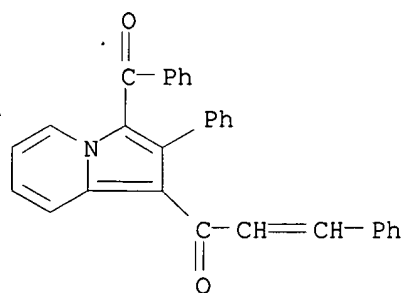
RN 107847-03-0 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-2-phenyl-1-indolizinyl)- (9CI) (CA INDEX NAME)



RN 189024-13-3 CAPLUS  
 CN 1-Indolizinecarboxaldehyde, 3-benzoyl-2-phenyl- (9CI) (CA INDEX NAME)



RN 189024-14-4 CAPLUS  
 CN 2-Propen-1-one, 1-(3-benzoyl-2-phenyl-1-indolizinyl)-3-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
110.23	282.54

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-15.60	-15.60

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